

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application.

These amendments introduce no new matter and support for the amendment is replete throughout the specification and claims as originally filed. These amendments are made without prejudice and are not to be construed as abandonment of the previously claimed subject matter, or agreement with any objection or rejection of record.

Listing of Claims:

1. (Currently Amended) A library of nucleic acid constructs ~~transfected into a cell sample~~, each construct comprising:

a cis-element sequence comprising one or more copies of a cis element to which a specified transcription factor is known to bind, the cis element sequence varying within the library of nucleic acid constructs;

a promoter sequence 3' relative to the cis element sequence;

a reporter sequence 3' relative to the promoter sequence, the reporter sequence comprising a variable sequence that varies within the library of nucleic acid constructs;

wherein each cis element sequence corresponds to a ~~given~~ different reporter sequence within the library of nucleic acid constructs ~~and the reporter sequences are transcribed in the cell sample as mRNA when a transcription factor binds to the cis element and induces expression.~~

2. (Previously Submitted) The library according to claim 1 wherein the reporter sequences comprise priming sequences 5' and 3' relative to the variable sequences.

3. (Previously Submitted) The library according to claim 2 wherein the 5' and 3' priming sequences are conserved within the library.

4. (Previously Submitted) The library according to claim 1 wherein the library comprises at least 10 different cis elements.
5. (Previously Submitted) The library according to claim 1 wherein the library comprises at least 20 different cis elements.
6. (Previously Submitted) The library according to claim 1 wherein the library comprises at least 50 different cis elements.
7. (Previously Submitted) The library according to claim 1 wherein the library comprises at least 100 different cis elements.
8. (Previously Submitted) The library according to claim 1 wherein the cis element sequence comprises at least two copies of the cis element.
9. (Previously Submitted) The library according to claim 1 wherein the cis element sequence comprises at least three copies of the cis element.
10. (Previously Submitted) The library according to claim 1 wherein the cis element sequence comprises at least four copies of the cis element.
11. (Previously Submitted) The library according to claim 1 wherein an individual copy of the cis element has a length between about 5 and 100 base pairs.
12. (Previously Submitted) The library according to claim 1 wherein an individual copy of the cis element has a length between about 5 and 75 base pairs.
13. (Previously Submitted) The library according to claim 1 wherein an individual copy of the cis element has a length between about 5 and 50 base pairs.
14. (Previously Submitted) The library according to claim 1 wherein the variable sequence of the reporter sequence is at least 15 bases in length.

15. (Previously Submitted) The library according to claim 1 wherein the variable sequence of the reporter sequence is at least 25 bases in length.

16. (Previously Submitted) The library according to claim 1 wherein the variable sequence of the reporter sequence is at least 50 bases in length.

17. (Previously Submitted) The library according to claim 1 wherein the variable sequence of the reporter sequence is between 15 and 2000 bases in length.

18. (Previously Submitted) The library according to claim 1 wherein the variable sequence of the reporter sequence is between 25 and 2000 bases in length.

19. (Previously Submitted) The library according to claim 1 wherein the variable sequence of the reporter sequence is between 50 and 2000 bases in length.

20. (Previously Submitted) The library according to claim 1 wherein the different reporter sequences encode different reporter proteins.

21. (Previously Submitted) The library according to claim 20 wherein the reporter sequence is in an open reading frame relative to the promoter sequence.

22. (Previously Submitted) The library according to claim 21 wherein the reporter sequence comprises a stop codon 3' relative to sequence encoding reporter protein.